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NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 22 2018

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I, Kevin Willard, certify that; I am employed by Gyrodata Inc.; that I am authorized and qualified to review the Gyroscopic Multishot survey from a depth of 0 feet to a depth of feet conducted on the day(s) of 08/15/2017; that this survey was conducted at the request OXY USA for the PALLADIUM MDP1 Well 6H No. 30-015-44293 in Eddy County, NM; that the data is true, correct, complete, and within the limitations of the tool as set forth by Gyrodata Inc.; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Gyrodata Inc.

A handwritten signature in black ink, appearing to read "Kevin Willard", is written over a horizontal line.

Kevin Willard
Operations Coordinator

A Gyrodata Directional Survey

NM OIL CONSERVATION
ARTESIA DISTRICT
FEB 22 2018

FINAL DEFINITIVE COPY

for

OXY USA

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Lease: Palladium MDP1 7-6 Fed Com 6H Well: 6H, 17 1/2" hole
Location: Transcend Rig 1, Eddy County, New Mexico

Job Number: MD0817GDM597

Run Date: 15 Aug 2017

Report Generated: 29 Sep 2017 03:03

Surveyor: Craig Donald

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Company Man

Survey Latitude: 32.225275 deg. N

Longitude: 103.809723 deg. W

Well Head Location -

From Local Horizontal Reference: N 0.00 ft. E 0.00 ft.

Azimuth Correction:

Gyro: -0.28000 deg to Grid North

Depth Reference: Rotary Table

Air Gap (RKB to Ground / RKB to MSL): 6.00

Ground Elevation (Ground to MSL / MSL to Mudline): 3525.40

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Local Horizontal Reference

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MEASURED DEPTH	INCL	AZIMUTH	DOGLEG SEVERITY	VERTICAL DEPTH	CLOSURE DIST. AZIMUTH	HORIZONTAL COORDINATES
feet	deg.	deg.	deg./ 100 ft.	feet	feet deg.	feet
0.00	0.00	0.00	0.00	0.00	0.0 0.0	0.00 N
17.78	0.18	171.48	1.01	17.78	0.0 171.5	0.00 E
75.37	0.31	230.92	0.47	75.37	0.2 205.7	0.10 W
134.65	0.45	258.18	0.38	134.65	0.6 231.4	0.46 W
195.67	0.54	272.39	0.25	195.67	1.1 247.7	0.98 W
257.71	0.62	279.67	0.18	257.70	1.6 258.3	1.60 W
321.71	0.65	282.58	0.07	321.70	2.3 265.1	2.30 W
384.71	0.86	263.90	0.51	384.69	3.1 266.9	3.12 W
447.71	1.10	254.46	0.46	447.68	4.2 264.8	4.17 W
510.71	0.95	253.23	0.24	510.67	5.3 262.5	5.25 W
571.71	0.80	264.58	0.37	571.67	6.2 261.9	6.16 W
637.71	0.67	260.81	0.21	637.66	7.1 262.0	7.00 W

Final Station Closure: Distance: 7.07 ft Az: 262.00 deg.